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## (54) SLURRY FOR CASTING AND ITS PRODUCTION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To increase the rate of sedimentation of a slurry for casting contg. powdery ceramic stock, a binder, a dispersant and curdlan and to improve productivity at the time of casting by dissolving the curdlan by a specified method.

**SOLUTION:** An alkali agent such as ammonia is added to a slurry contg. powdery ceramic stock such as  $\text{Si}_3\text{N}_4$ ,  $\text{AlN}$ ,  $\text{Y}_2\text{O}_3$  or  $\text{Al}_2\text{O}_3$ , a binder such as saccharides, a dispersant such as ammonium polycarbonate and curdlan ( $\beta$ -1,3- glucan) to adjust the slurry to  $\square\text{pH}9$ , preferably 9-12, especially preferably 9.5-11 and the curdlan is dissolved. Casting is carried out in a short time, density distribution in a cast body is made uniform and cracking at the time of drying and firing is suppressed.

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